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TRANSMITTAL			Application Number	09/954,571			
			Filing Date	09/11/2001			
FORM		First Named Inventor	Kenneth R. Chien				
(To be used for all correspondence after initial filing)		Group Art Unit	1632				
			Examiner Name	Peter Paras, Jr.			
Total Number of Pages in This Submission 6			Attorney Docket Number	6627-PA0123			
ENCLOSURES (check all that apply)							
Fee Transmittal Form  Fee Attached  Amendment / Response  After Final  Affidavits/declaration(s)  Extension of Time Request  Express Abandonment Request  Information Disclosure Statement  Certified Copy of Priority Document(s)		Assignment Papers (for an Application)  Drawing(s)  Licensing-related Papers  Petition Routing Slip (PTO/SB/69) and Accompanying Petition  Petition to Convert to a Provisional Application  Power of Attorney, Revocation Change of Correspondence Address  Terminal Disclaimer  Small Entity Statement  Request for Refund			After Allowance Communication to Group  Appeal Communications to Board of Appeals and Interferences  Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)  Proprietary Information  Status Letter  Additional Enclosure(s) (please identify below):  copy of office communication from PTO (2 pp); return postcard		
Response to Missing Parts/ Incomplete Application  Response to Missing Parts Under 37 CFR 1.52 or 1.53		Remarks					
	SIGNA	TURE OF APP	LICANT, ATTORNEY, OR A	GENT			
ATTORNEY NAME	COLLEEN J. McKIE	ERNAN Reg. N	lo. 48,570				
FIRM	BROWN, MARTIN, HALLER & McCLAIN, LLP						
SIGNATURE	(2014C:						
DATE	ATE 1/10/03						
CERTIFICATE OF MAILING							
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date:  1/10/03							
Typed or printed name Karen L. Johnson							
Signature	fare	n L	Johnson	Dat	te 1/10/03		



# RECEIVED JAN 1 5 2003 TECH CENTER 1800/2900

**PATENT** 

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of	)	
	)	FOR: HIGH EFFICIENCY CARDIAC
Kenneth R. Chien	)	GENE TRANSFER
	)	
Serial No.: 09/954,571	)	Group
•	)	Art Unit: 1632
Filed: September 11, 2001	)	

### RESPONSE TO NOTIFICATION TO COMPLY WITH SEQUENCE LISTING REQUIREMENTS

Commissioner for Patents P. O. Box 2327 Arlington VA 22202

Attention:

Peter Paras, Jr.

Examiner

Dear Sir:

This is in response to the Notice to Comply with Sequence Listing

Requirements dated December 12, 2002 stating that the Applicant must provide a

United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, PO Box 2327, Arlington VA 22202 on

January 10, 2003

(Mailing Date)

Karen L. Johnson

(Typed Name)

(Signature)

January 10, 2003

(Date of Signature)

I hereby certify that this correspondence is being deposited with the

"Sequence Listing" and an amendment to direct its entry into the case.

The Applicants submit that no such listing is required in this case for a number of reasons. First, all of the sequences discussed in the application are first mentioned in the background section of the specification with references to where the sequences can be found. None of the sequences discussed in the instant application are new.

Second, the invention is directed to a method, not a composition of matter. The method teaches the use of a viral vector, not a specific nucleic acid sequence or even a specific nucleic acid. The invention is not limited by the selection of the viral vector. An exhaustive sequence listing could not be made. Dependent claims teach the use of adenovirus and adeno-associated virus vectors. However, adenovirus and adeno-associated virus are not a single virus, but instead families of viruses with many members, most likely with additional members to be identified. Therefore no exhaustive listing could be made. Moreover, those skilled in the art are readliy able to identify the sequences of interest for use in the instant invention using NCBI-BLAST, SWISS-PROT or any of a number of databases containing nucleotide and protein sequence information or by referring to references listed in the text.

Third, just as the method is not limited by the choice of viral vector, it is also not limited by the coding sequence to be inserted. A number of examples of potentially useful coding sequences are presented in the specification, but they are not limitations of the method of the invention which is defined by the steps in claim 1. Again, the coding sequences for the examples given can be readily found in a sequence database or by referring to the references listed in the text.

Fourth, all sequences referred to in the application are referred to by name, not by the listing of a series of nucleotides or amino acids. Therefore, no listing is required.

The Applicants submit that in view of the above arguments that the application

is in proper form for examination and does not require a sequence listing.

#### **FEES**

It is believed that no fees are due with this response. However, if a fee is due, the Commissioner is entitled to charge deposit accoun 02-4070 referencing case number 6627-PA123.

#### **CONCLUSIONS**

In view of the above comments, the Applicants submit that the application is in proper form for examination. If the Examiner believes that examination of the case can be expedited by a telephone call, he is invited to call the agent for applicant listed below, collect, in order to resolve any issues that may remain.

Respectfully submitted,

Dated: January 10, 2003

Colleen J. McKiernan, PhD

Agent for Applicant Registration No.48,570

BROWN MARTIN HALLER & McCLAIN LLP 1660 Union Street San Diego, California 92101-2926

Telephone: (619) 238-0999 Facsimile: (619) 238-0062

Docket No.: 6627-PA0123



## UNITED STATES PER TIMENT OF COMMERCE Patent and Tradellark Office

Address: ASSISTANT COMMISSIONER FOR PATENTS

Washington, D.C. 20231

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.

EXAMINER

ART UNIT PAPER

5

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

#### **Commissioner of Patents and Trademarks**

#### Sequence Compliance

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37CFR 1.821(a)(1) and (a)(2). See Figure 1. However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures.

APPLICANT IS GIVEN A PERIOD WITHIN WHICH TO COMPLY WITH THE SEQUENCE RULES, 37 CFR 1.821-1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136. In no case may an applicant extend the period for response beyond the six month statutory period. Applicant is requested to return a copy of the attached Notice to Comply with the response.

To avoid damage to a CRF by irradiation, a reply to a notice to comply with the sequence rules should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office.

Please direct all replies to the United States Patent and Trademark Office via one (1) of the following:

- 1. Electronically submitted through EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual ePAVE)
- 2. Mailed to: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- 3. Mailed by Federal Express, United Parcel Service or other delivery service to: U. S. Patent and Trademark Office, 2011 South Clark Place, Customer Window, Box Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, Virginia 22202
- 4. Hand Carried directly to the Customer Window at: 2011 South Clark Place, Crystal Plaza Two, Lobby, Room 1B03, Box Sequence, Arlington, Virginia 22202

Any inquiry concerning this communication or earlier communications from the examiner(s) should be directed to Peter Paras, Jr., whose telephone number is 703-308-8340. The examiner can normally be reached Monday-Friday from 8:30 to 4:30 (Eastern time).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Reynolds, can be reached at 703-305-4051. Papers related to this application may be submitted by facsimile transmission. Papers should be faxed via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CM1 Fax Center numbers are (703) 308-4242

Inquiries of a general nature or relating to the status of the application should be directed to Dianiece Jacobs whose telephone number is (703) 305-3388.

Peter Paras, Jr. Art Unit 1632

**Application No.:**09/954571

## NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

QE JO	1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
PATENT 8	2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
7.210	3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
	4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
	5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
, •	6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
	7. Other:
	Applicant Must Provide:
	An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
	An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
	A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).
	For questions regarding compliance to these requirements, please contact:
	For Rules Interpretation, call (703) 308-4216 For CRF Submission Help, call (703) 308-4212

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